

APPLIED SCIENCE

Biology and agriculture 3+1 dual degree program with UNL

With the growing population of the world, natural resources must be understood and used wisely. In this program, you'll study agriculture and biology. You'll learn to apply concepts, processes, and procedures to manage resources in the areas of food, animal, and plant systems. You'll begin your education with coursework at WSC, then transfer to UNL for your final year of undergraduate study. You also have the option to take your final year of courses online with UNL. Students who complete the dual-degree program will receive two bachelor's degrees: an Applied Science degree from UNL and a Life Sciences / Biology degree from WSC. With these dual degrees, you'll be prepared for jobs related to farming, ranching, parks and recreation, and land management.

fast facts

Credit hours: 90 at WSC (includes 30 credit hours of general education); 30 at UNL

A total of 120 credit hours are needed to graduate from WSC. Additional majors or minors can be added to help meet graduation requirements.

Degrees offered: B.S. in Life Sciences (Biology concentration) from WSC; B.S. in Applied Science (Agriculture concentration) from UNL

Department: Life Sciences

School: Science, Health, and Criminal Justice

focus on results

Skills Learned

- Understanding of natural resource systems
- Critical thinking and problem-solving
- Scientific reasoning
- Biological systems and structures
- Plant science
- General chemistry and physics
- Modern lab techniques
- Technical communication
- Statistical analysis

Possible Careers

- Agronomist
- Agricultural producer
- Crop consultant
- Farm/ranch operator
- Farm loan officer
- Feedlot manager
- Grain merchandiser
- Farm service tech

Types of Employers

- Farm/ranch
- Agrochemical companies
- Farm service agencies
- Insurance companies

outside the classroom

Activities / Opportunities

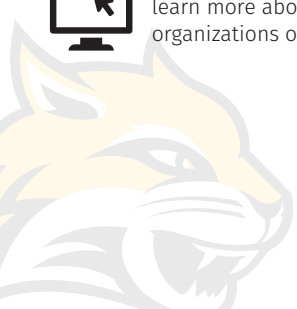
- Conduct research projects
- Conferences and presentations
- Peer mentoring and tutoring
- Service-Learning
- Study Abroad

Clubs / Organizations

- Biology Club
- The Wildlife Society



Visit www.wsc.edu/clubs to learn more about clubs and organizations on campus.



Program courses

2026-27 Academic Year

The following courses are required for the program of study described on this sheet. Every effort is made to ensure this information is current, but please be aware that some content may have changed. To develop a plan for registering and taking these courses, please consult the current academic catalog and your advisor.

Program courses

Life Sciences Core Courses

BIO 110 Biology Concepts.....	4
CHE 106 General Chemistry I.....	4
PHY 321 Physics Laboratory I.....	1
Select one of the following.....	3-4
PHY 201 General Physics I (3)	
PHY 301 University Physics I (4)	

General Studies Courses at Wayne State College

While several courses may usually be used to meet the General Studies CAT requirements at WSC, the courses listed below are also approved to meet the General Studies (ACE) requirements at UNL. Deviation from those listed below may increase the number of courses you would need to take through UNL for your dual degrees. (CAT 7 is fulfilled by taking BIO 110 Biology Concepts at WSC as part of the biology courses of this program.)

CAT 1: ENG 102 Composition Skills.....	3
CAT 2: CNA 100 Principles of Human Communication.....	3
CAT 3: Math course (MAT 130 Pre-Calculus or MAT 140 Calculus I).....	5
CAT 4: ART 244 Art History Survey I.....	3
CAT 5: History course (HIS 150 History of the United States for General Studies, HIS 280 America, 15,000 B.C. to 1845, or HIS 281 America, 1845 to 1945).....	3
CAT 6: PHI 101 Introduction to Philosophy.....	3
CAT 8: ECO 203 Principles of Microeconomics.....	3
CAT 9: FCS 207 Nutrition.....	3
CAT 10: BIO 104 Environmental Concerns.....	3

Applied Science Courses at Wayne State College

BIO 145 Environmental Studies Seminar.....	1
BIO 200 Zoology.....	4
BIO 210 Experimental Plant Science.....	4
BIO 301 Biology Seminar (take twice).....	1
BIO 320 Molecular Genetics.....	4
BIO 325 Ecology.....	4
BIO 345 Conservation Biology.....	3
BIO 370 Introduction to Research.....	2
BIO 385 Microbiology.....	4
BIO 397 Biology Internship.....	1
BIO 425 Evolution.....	3
BIO 470 Research Project.....	1
CHE 107 General Chemistry II.....	4
EAS 360 Global Climate Change.....	3
GEO 430 Geographic Information Systems.....	3
POS 430 Public Policy.....	3
SOC 420 Environmental Sociology.....	3

Applied Science Courses at the University of Nebraska-Lincoln

Upon acceptance to the UNL College of Agriculture and Natural Sciences (CASNR), students will work with their UNL advisor to select courses in the following areas:

AGRI 115 Biotechnology: Food, Health, and Environment.....	3
**Food, Animal, and Plant Science Systems.....	4
**Current and Emerging Technologies.....	2
**Leadership, Entrepreneurship, and Economics.....	12
Any CASNR ACE 10 course.....	3
**Electives.....	6

**Consult with Applied Science advisor to ensure courses are CASNR courses at the 300-400 level. Student must meet the CASNR residency requirement of 18 hours at the 300-400 level.

life sciences faculty



Visit www.wsc.edu/life-sciences-department to learn more about the Department of Life Sciences.

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Revised on: 5/12/26